

October 30, 2019

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U.S. EPA Region III
Director, Air Protection Division
Mail Code 3WC22
1650 Arch Street
Philadelphia, PA 19103-2029

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William R. Weaver
Environmental Program Manager
Southcentral Regional Office
Pennsylvania Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110

RECEIVED

NOV 08 2019

Air & Radiation Division

**Re: Dominion Energy Transmission, Inc. – Chambersburg Compressor Station
NSPS OOOOa –Annual Report**

Dear Sirs and/or Madam:

Dominion Energy Transmission, Inc. (DETI) owns and operates the Chambersburg Compressor Station, located in Chambersburg, Pennsylvania and is subject to 40 CFR 60, Subpart OOOOa, Standards of Performance for Crude Oil, and Natural Gas Facilities.

In accordance with 40 CFR 60.5420a(b), DETI is submitting the annual report for the Chambersburg Compressor Station covering the time period of August 2, 2018 thru August 1, 2019. The affected facility at the Chambersburg Compressor Station subject to 40 CFR 60, Subpart OOOOa is the collection of fugitive emission components at the compressor station.

This annual report is being submitted according to the requirements specified in §60.5420a (b) and includes the following:

1. Attachment A: Certification by Certifying Official
2. Attachment B: General Site Information
3. Attachment C: Annual Fugitive Emissions Monitoring Report

Chambersburg – NSPS OOOOa – Annual Report
October 30, 2019
Page 2

If you have any questions regarding this submittal, please contact Sean Warden at (804) 273-3263, or via email at Richard.S.Warden@dominionenergy.com.

Sincerely,

A handwritten signature in blue ink, appearing to read 'T. Effinger', with a long horizontal flourish extending to the right.

Thomas N. Effinger
Director, Environmental Services

Enclosures

Attachment A

Certification by Certifying Official

PENNSYLVANIA CERTIFICATE OF DATA ACCURACY

**Annual Report - 0000a
October 30, 2019
Chambersburg Station**

**Company Name: Dominion Energy Transmission, Inc.
Facility Name: Chambersburg Station
Facility Address: 1894 Warm Spring Rd
Chambersburg, PA 17202**

Permit Number: 28-03045

Federal Tax ID – Plant Code: 55-0629203-1

I, John M. Lamb, certify under penalty of law that I am a company officer or plant manager, or authorized representative of the facility identified above, authorized to make this affidavit. I further certify, as required under 25 Pa. Code § 127.402(d) that, based on information and belief formed after reasonable inquiry, the statements and information contained in this document are true, accurate, and complete.

Signature: _____



John M. Lamb
VP, Eastern Pipeline Operations

Date: 10/29/19

Attachment B
General Site Information

Dominion Energy Transmission, Inc.
Chambersburg Compressor Station
2019 Annual Report
General Site Information

SITE INFORMATION	Company Name (§60.5420a(b)(1)(i))	Dominion Energy Transmission, Inc.
	Facility Site Name (§60.5420a(b)(1)(i))	Chambersburg Compressor Station
	Address of Affected Facility (§60.5420a(b)(1)(i))	1894 Warm Springs Road
	City	Chambersburg
	County	Franklin
	State Abbreviation	PA
	Zip Code	17202
Identification of Affected Facility(s)	Identification of each affected facility being included in the annual report. (§60.5420a(b)(1)(ii))	1. Collection of fugitive emission components at the compressor station
REPORTING INFORMATION	Beginning Date of Reporting Period. (§60.5420a(b)(1)(iii))	08/02/18
	Ending Date of Reporting Period. (§60.5420a(b)(1)(iii))	08/01/19
Certification Official	Name and title of certifying official (§60.5420a(b)(1)(iv))	John Lamb / VP Eastern Pipeline Operations (Certification in Attachment A)

Attachment C

**Annual Fugitive Emissions Monitoring
Report**



LDAR Report

Dominion

Chambersburg - LDAR

Annual Report

NSPS Subpart OOOOa

PERIOD: 8/2018 - 8/2019

Prepared By:

Target Emission Services

800 Town and Country Blvd. (Suite 300)
Houston, Texas, 77024

WWW.TARGETEMISSION.COM

Report Generated on: Sep 16, 2019

SUMMARY



Company:	Dominion		Report:	Annual LDAR		
District:	DETI-Eastern		Regulation(s):	NSPS Subpart 0000a		
Facility Name:	Chambersburg - LDAR		Report Date:	Sep 16, 2019		
GPS Coord.	39.890844	-77.720177	Period:	2018-Aug-02	TO	2019-Aug-01

This report satisfies the requirements of 40 CFR §60.5420a(b)(7) for the collection of fugitive emissions components at the above referenced compressor station.

Information required to be reported per §60.5420a(b)(7)(i) - (vi)					
Monitoring Quarter	Q4	Q1	Q2	Q3	
Survey Start Date/Time	10/08/2018 10:00 AM	01/28/2019 8:30 AM	04/24/2019 8:00 AM	survey conducted after report date	
Survey End Date/Time	10/08/2018 1:00 PM	01/28/2019 1:00 PM	04/24/2019 2:00 PM		
OGI Technician <small>(see Appendix for OGI Technician Training and Experience)</small>	Andrew Sheffler	Evan Musselman	Justin Vecchio		
Ambient Temp. (°F)	65	19	55		
Sky Conditions	Overcast, >90% of the sky is covered by clouds	Clear, No clouds	Mostly Sunny, 1%-10% sky is clouds		
Max. Wind Speed (MPH)	2	5	3		
LDAR Instrument	Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320		
§60.5420a(b)(7)(vi) Deviations from Monitoring Plan	No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	No deviations from the Monitoring Plan		
Deviation(s) Explanation	N/A	N/A	N/A		

§60.5420a(b)(7)(vii) - Number and type of components for which fugitive emissions were detected					
Valves	1	4	1		
Connectors	11	6	4		
Pressure Relief Devices					
Open-Ended Lines					
Flanges		3			
Compressors					
Instruments					
Meters					
Other					
Total No. of Leaks Detected	12	13	5		

§60.5420a(b)(7)(viii) - Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h)					
Valves					
Connectors					
Pressure Relief Devices					
Open-Ended Lines					
Flanges					
Compressors					
Instruments					
Meters					
Other					

§60.5420a(c)(15)(ii)(I)(7) - Number and type of components that were tagged as a result of not being repaired during the monitoring survey as required in §60.5397a(h)(3)(ii).					
Valves	1	2	1		
Connectors	10	3	1		
Pressure Relief Devices					
Open-Ended Lines					
Flanges		3			
Compressors					
Instruments					
Meters					
Other					

§60.5420a(b)(7)(ix) - Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored					
Valves					
Connectors					
Pressure Relief Devices					
Open-Ended Lines					
Flanges					
Compressors					
Instruments					
Meters					
Other					

§60.5420a(b)(7)(x) - Date of successful repair of the fugitive emission component (see Repair List).

§60.5420a(b)(7)(xi) - Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair (see DOR List).

§60.5420a(b)(7)(xii) - Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding (see Repair List).

Fugitive Emissions Components Placed on DOR					
This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(xi), "number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair".					
Component					
Quarter	Q4	Q1	Q2	N/A	N/A
Survey Date	10/08/18	01/28/19	04/24/19		
Valves					
Connectors					
Pressure Relief Devices					
Open-Ended Lines					
Flanges					
Compressors					
Instruments					
Meters					
Other					
Total No. of Leaks on DOR	0				
Date Surveyed	Emission ID #	Component Type	Current Repair Status	Delay of Repair Explanation / Justification	

Fugitive Emissions Components Repaired During Reporting Period

This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(x), "date of successful repair of the fugitive emission component" and §60.5420a(b)(7)(xii), "type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding".

Date Surveyed	Emission ID #	Date of Successful Repair	Repair Confirmation Method / Instrument
2018-10-08	25510279	2018-Oct-08	OGL
2018-10-08	25510271	2018-Oct-09	Snoop
2018-10-08	25510272	2018-Oct-09	Snoop
2018-10-08	25510273	2018-Oct-09	Snoop
2018-10-08	25510276	2018-Oct-09	Snoop
2018-10-08	25510277	2018-Oct-09	Snoop
2018-10-08	25510278	2018-Oct-10	Snoop
2018-10-08	25510281	2018-Oct-10	Snoop
2018-10-08	25510274	2018-Oct-11	Snoop
2018-10-08	25510275	2018-Oct-11	Snoop
2018-10-08	25510269	2018-Oct-17	Snoop
2018-10-08	25510270	2018-Oct-17	Snoop
2019-01-28	26210001	2019-Jan-28	Snoop
2019-01-28	26210009	2019-Jan-28	Snoop
2019-01-28	26210015	2019-Jan-28	Snoop
2019-01-28	26210016	2019-Jan-28	Snoop
2019-01-28	26210013	2019-Jan-29	Snoop
2019-01-28	26210006	2019-Jan-30	Snoop
2019-01-28	26210007	2019-Jan-30	Snoop
2019-01-28	26210008	2019-Jan-30	Snoop
2019-01-28	26210002	2019-Feb-08	Snoop
2019-01-28	26210003	2019-Feb-08	Snoop
2019-01-28	26210004	2019-Feb-08	Snoop
2019-01-28	26210014	2019-Feb-08	Snoop
2019-01-28	26210005	2019-Feb-25	Snoop
2019-04-24	26210035	2019-Apr-24	OGL
2019-04-24	26210037	2019-Apr-24	OGL
2019-04-24	26210038	2019-Apr-24	OGL
2019-04-24	26210034	2019-May-03	OGL
2019-04-24	26210036	2019-May-20	Snoop

OGI Technician Training and Experience

Monitoring surveys are performed by personnel that are trained in the proper operation of the OGIC (Optical Gas Imaging Camera) to be used in the monitoring survey and that have prior experience using OGICs for the purposes of identifying fugitive emissions. Additionally, monitoring personnel are familiar with the types of equipment located at a natural gas compressor station. All monitoring personnel review each site specific monitoring plan prior to performing monitoring surveys at the Facility.

All Monitoring Technicians follow a protocol containing technical procedures, training requirements, and individual and team performance audits. This protocol ensures that each crew member follows a prescriptive training program. The training program includes minimum required field times for each module. Each module uses both written testing and on-site work performance audits to evaluate the crew member on their work performance.

Each crew member must successfully complete their training modules to be allowed to work as a member of the main field crew. The protocol also includes an audit program to evaluate work performance on an on-going basis. This system ensures that each crew member is adhering to the procedures and guidelines of the protocol.

Each monitoring technician:

- 1) holds a strong knowledge of oil and gas operations and has a detailed understanding of the various processes that are involved in the transportation and processing on natural gas.
- 2) is trained (certified) and experienced in the use of fugitive emission detection and measurement equipment;
- 3) has a minimum of 1000 hours of experience on the use of optical gas imaging, ultrasonic leak detection and emission flow rate measurement
- 4) maintains required safety training and strong understanding of applicable TARGET Safe Operating Procedures; and
- 5) received performance audits to ensure compliance to our prescriptive fugitive emission assessment protocol

The protocol contains technical procedures, training requirements, and individual and team performance audits. The purpose of our assessment protocol is to:

- 1) Maintain a high degree of Quality Control;
- 2) Ensure that all sources of fugitive emissions are identified;
- 3) Ensure that all source data is consistently recorded to provide reliable and effective emission reduction recommendations.

This protocol eliminates the common problems and barriers that cause many programs to fail. Our staff are trained and audited to avoid many of the common fugitive emission program problems. Some of these common problems include:

- Inexperienced with camera use and the concepts of infrared thermography
- Not using multiple camera angles
- Constantly moving the camera from scene to scene without pausing in each view to look for gas images
- Many leaks are missed by relying solely on the automatic mode (manual mode can be more effective in certain situations)
- Scanning too fast and missing components

Accurate data collection and entry is crucial to maintaining an effective Fugitive Emission Management Program. The data management protocol includes a data QA/QC review process that contains three levels of evaluation:

- 1) Technician Self Check – at the end of each assessment the technician must review each emission entry to locate and remediate any data inconsistencies
- 2) Team Lead Review – at the end of each work day the Team Lead will run a QA/QC evaluation on each assessment and emission to ensure that data has been entered following the TARGET Protocol.
- 3) Project Manager Evaluation – on a weekly basis the project manager will run all emission data through a QA/QC data evaluation to detect and eliminate any inconsistencies.

OGI Technician Training and Experience

Survey Date	OGI Technician	Certification Date	Months of OGI Experience
2018-Oct-08	Andrew Sheffler	2017-Sep-05	14
2019-Jan-28	Evan Musselman	2018-Jul-15	7
2019-Apr-24	Justin Vecchio	2018-Oct-01	7